

IN THE CLAIMS:

Please amend Claims 1-39 as follows:

1. (Currently Amended) A process cartridge ~~adapted to be detachably~~ attachable ~~attached~~ to a body of an image forming apparatus, comprising:

an image bearing member;

a developing device configured and positioned to develop ~~means for developing~~ an electrostatic image formed on said image bearing member by using developer to form a developer image on said image bearing member; and

a developer charger configured and positioned to charge ~~charging means for charging~~ residual developer on said image bearing member disposed downstream, with respect to a moving direction of said image bearing member, of a transferring position at which said developer image is transferred onto a transfer ~~destination~~ member and upstream, with respect to the moving direction of said image bearing member, of a position at which the electrostatic image is formed on said image bearing member,

said developer charger ~~charging means~~ being disposed ~~to in such a way that it can be in~~ contact ~~with~~ said image bearing member, and

said developer charger ~~charging means~~ being movable in a direction substantially the

same as a the longitudinal direction of said image bearing member upon charging said residual developer, ~~developer~~;

wherein in the direction substantially the same as the longitudinal direction of said image bearing member, ~~when letting L1 (mm) be denotes a~~ the developing width of said developing device means, ~~letting L2 (mm) be denotes a~~ the contact width of said developer charger charging means with said image bearing member, and ~~letting d (mm) be a~~ denotes the width of movement of said developer charger charging means, the following condition is satisfied:

$$L1 + d \leq L2.$$

2. (Currently Amended) A process cartridge according claim 1,

further comprising a charging device configured and positioned to charge ~~that charges~~ said image bearing member for allowing formation of said electrostatic image,

wherein ~~when letting L3 (mm) be a~~ denotes the charging width of said charging device in ~~the a~~ direction substantially the same as the longitudinal direction of said image bearing member, the following condition is satisfied:

$$L1 + 2d \leq L3.$$

3. (Currently Amended) A process cartridge according to claim 1,

wherein ~~said~~ the body of the apparatus has a transferring ~~means~~ device configured and positioned to transfer ~~for transferring~~ ~~said~~ the developer image onto ~~said~~ the transfer destination member at ~~said~~ the transferring position, and

wherein when ~~letting~~ L4 (mm) ~~be a~~ denotes the transferring width of ~~said~~ the transferring ~~means in the~~ device in a direction substantially the same as the longitudinal direction of said image bearing member, the following condition is satisfied:

$$L1 + 2d \leq L4.$$

4. (Currently Amended) A process cartridge according to claim 1, wherein when ~~letting~~ L5 (mm) ~~be a~~ denotes the length of a chargeable portion of said image bearing member in ~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member, the following condition is satisfied:

$$L2 \leq L5 - d.$$

5. (Currently Amended) A process cartridge according to claim 2, wherein ~~letting~~ when L5 (mm) ~~be a~~ denotes the length of a chargeable portion of said image bearing member in ~~the~~ a

direction substantially the same as the longitudinal direction of the image bearing member, the following condition is satisfied:

$$L3 \leq L5.$$

6. (Currently Amended) A process cartridge according to claim 1, wherein ~~said the~~ body of the apparatus ~~has~~ includes:

a transferring device means configured and positioned to transfer the ~~for transferring said~~ developer image onto ~~said the~~ transfer ~~destination~~ member at ~~said the~~ transferring position; and

a cleaning device configured and positioned to remove ~~means for removing~~ developer on ~~said the~~ transfer ~~destination~~ member, and

wherein ~~letting when~~ L6 (mm) be a denotes the cleaning width of ~~said the~~ cleaning device ~~means~~ in ~~the~~ a direction substantially the same as the longitudinal direction of the image bearing member, the following condition is satisfied:

$$L1 + 2d \leq L6.$$

7. (Currently Amended) A process cartridge according to claim 1, wherein upon charging said residual developer, said developer charger ~~charging means~~ can reciprocate in ~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member.

8. (Currently Amended) A process cartridge according to claim 1, wherein a DC voltage having a charge polarity the same as a normal charge polarity of the developer is applied to said developer charger ~~charging means~~.

9. (Currently Amended) A process cartridge according to claim 1, wherein said developer charger ~~charging means~~ has a fiber brush portion that is in contact with said image bearing member.

10. (Currently Amended) A process cartridge according to claim 1, wherein said developing device ~~means~~ is capable of recovering residual developer on said image bearing member.

11. (Currently Amended) A process cartridge according to claim 2 ~~1~~, wherein said charging device is disposed in contact with said image bearing member.

12. (Currently Amended) A process cartridge according to claim ~~1~~ or 2, wherein an oscillating voltage is applied to said charging device.

13. (Currently Amended) A process cartridge according to claim 12, wherein said charging device reduces a the charge amount of developer remaining on said image bearing member.

14. (Currently Amended) A process cartridge according to claim 1, further comprising a second developer charger configured and positioned to charge ~~charging means for charging~~ residual developer on said image bearing member with a charge polarity reverse to a normal charge polarity of developer that is disposed downstream, with respect to the moving direction of said image bearing member, of ~~said~~ the transferring position and upstream, with respect to the moving direction of said image bearing member, of said developer charger ~~charging means~~,

said second developer ~~charging means~~ charger being disposed ~~in such a way that it can be~~ in to contact ~~with~~ said image bearing member, and

said second developer charger ~~charging means~~ being movable in ~~the~~ a direction substantially the same as a the longitudinal direction of said image bearing member.

15. (Currently Amended) A process cartridge according to claim 14, wherein said second developer charger ~~charging means~~ is capable of reciprocating in ~~the~~ a direction substantially the same as the longitudinal direction of the image bearing member.

16. (Currently Amended) A process cartridge according to claim 14, wherein said second developer charger ~~charging means~~ has a fiber brush portion that is in contact with said image bearing member.

17. (Currently Amended) A process cartridge according to claim 14,
wherein ~~a~~ the contact width of said second developer charger ~~charging means~~ and said image bearing member is substantially the same as ~~a~~ the contact width of said developer charger ~~charging means~~ and said image bearing member in ~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member, and ~~a~~

wherein the width of movement of said second developer charger ~~charging means~~ is substantially the same as the width of movement of said developer charger ~~charging means~~.

18. (Currently Amended) An image forming apparatus comprising:
an image bearing member;

a developing device configured and positioned to develop ~~means for developing~~ an electrostatic image formed on said image bearing member by using developer to form a developer image on said image bearing member; and

a developer charger configured and positioned to charge ~~charging means for charging~~ residual developer on said image bearing member disposed downstream, with respect to a moving direction of said image bearing member, of a transferring position at which said developer image is transferred onto a transfer ~~destination~~ member and upstream, with respect to the moving direction of said image bearing member, of a position at which the electrostatic image is formed on said image bearing member,

said developer charger ~~charging means~~ being disposed to ~~in such a way that it can be in~~ contact ~~with~~ said image bearing member, and

said developer charger ~~charging means~~ being movable in a direction substantially the same as a the longitudinal direction of said image bearing member upon charging said residual developer, developer;

wherein in ~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member, ~~letting when~~ L1 (mm) be a ~~denotes the~~ developing width of said developing device means, ~~letting~~ L2 (mm) be a ~~denotes the~~ contact width of said developer

~~charger~~ ~~charging means~~ with said image bearing member, and ~~letting d (mm) be a~~ denotes the width of movement of said developer charging means, the following condition is satisfied:

$$L1 + d \leq L2.$$

19. (Currently Amended) An image forming apparatus according to claim 18,
further comprising a charging device configured and positioned to charge ~~that charges~~
said image bearing member for allowing formation of said electrostatic image,
wherein ~~when letting L3 (mm) be a~~ denotes the charging width of said charging device in
~~the a~~ direction substantially the same as the longitudinal direction of said image bearing member,
the following condition is satisfied:

$$L1 + 2d \leq L3.$$

20. (Currently Amended) An image forming apparatus according to claim 18, further
comprising a transferring device configured and positioned to transfer ~~means for transferring said~~
the developer image onto ~~said the~~ transfer ~~destination~~ member at ~~said the~~ transferring position,
wherein ~~when letting L4 (mm) be a~~ denotes the transferring width of said transferring
device ~~means~~ in ~~the a~~ direction substantially the same as the longitudinal direction of said image
bearing member, the following condition is satisfied:

$$L1 + 2d \leq L4.$$

21. (Currently Amended) An image forming apparatus according to claim 18, wherein ~~when letting~~ L5 (mm) be a ~~denotes the~~ length of a chargeable portion of said image bearing member in ~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member, the following condition is satisfied:

$$L2 \leq L5 - d.$$

22. (Currently Amended) An image forming apparatus according to claim 19, wherein ~~when letting~~ L5 (mm) be a ~~denotes the~~ length of a chargeable portion of said image bearing member in ~~the~~ a direction substantially the same as the longitudinal direction of the image bearing member, the following condition is satisfied:

$$L3 \leq L5.$$

23. (Currently Amended) An image forming apparatus according to claim 18, further comprising:

a transferring device configured and positioned to transfer ~~means for transferring said the~~ developer image onto ~~said the~~ transfer destination member at ~~said the~~ transferring position; and

a cleaning device configured and positioned to remove ~~means for removing~~ developer on
said the transfer ~~destination~~ member,

wherein ~~letting~~ when L6 ~~denotes the (mm)~~ be a cleaning width of said cleaning device
~~means in the~~ in a direction substantially the same as the longitudinal direction of the image
bearing member, the following condition is satisfied:

$$L1 + 2d \leq L6.$$

24. (Currently Amended) An image forming apparatus according to claim 18, further
comprising:

a carrying member configured and positioned to carry ~~for carrying~~ said the transfer
~~destination~~ member and conveying the transfer member ~~it~~ to said the transferring position;
position;

a transferring device configured and positioned to transfer ~~means for transferring~~ said the
developer image onto said the transfer ~~destination~~ member at said the transferring position; and

a cleaning device configured and positioned to remove ~~means for removing~~ developer on
said image bearing member,

wherein ~~when letting~~ L6 denotes the (mm) be a cleaning width of said cleaning device
~~means in the~~ a direction substantially the same as the longitudinal direction of said image bearing
member, the following condition is satisfied:

$$L1 + 2d \leq L6.$$

25. (Currently Amended) An image forming apparatus according to claim 18, wherein
upon charging said residual developer, said developer ~~charger charging means~~
~~the~~ a direction substantially the same as the longitudinal direction of said image bearing member.

26. (Currently Amended) An image forming apparatus according to claim 18, wherein a
DC voltage having a charge polarity the same as a normal charge polarity of the developer is
applied to said developer ~~charger charging means~~.

27. (Currently Amended) An image forming apparatus according to claim 18, wherein
said developer ~~charger charging means~~ has a fiber brush portion that is in contact with said image
bearing member.

28. (Currently Amended) An image forming apparatus according to claim 18, wherein said developing device means is capable of recovering residual developer on said image bearing member.

29. (Currently Amended) An image forming apparatus according to claim 19 ~~18~~, wherein said charging device is disposed in contact with said image bearing member.

30. (Currently Amended) An image forming apparatus according to claim ~~18~~ or 19, wherein an oscillating voltage is applied to said charging device.

31. (Currently Amended) An image forming apparatus according to claim 30, wherein said charging device reduces ~~a~~ the charge amount of developer remaining on said image bearing member.

32. (Currently Amended) An image forming apparatus according to claim 18, further comprising:

a second developer charger configured and positioned to charge ~~charging means for~~
~~charging~~ residual developer on said image bearing member with a charge polarity reverse to a

normal charge polarity of developer disposed downstream, with respect to the moving direction of said image bearing member, of ~~said the~~ transferring position and upstream, with respect to the moving direction of said image bearing member, of said developer charger ~~charging means~~,

said second developer charger ~~charging means~~ being disposed ~~in such a way that it can be~~ in to contact ~~with~~ said image bearing member, and

said second developer charger ~~charging means~~ being movable in ~~the~~ a direction substantially the same as a longitudinal direction of said image bearing member.

33. (Currently Amended) An image forming apparatus according to claim 32, wherein said second developer charger ~~charging means~~ is capable of reciprocating in ~~the~~ a direction substantially the same as the longitudinal direction of the image bearing member.

34. (Currently Amended) An image forming apparatus according to claim 32, wherein said second developer charger ~~charging means~~ has a fiber brush portion that is in contact with said image bearing member.

35. (Currently Amended) An image forming apparatus according to claim 32,
wherein ~~a~~ the contact width of said second developer charger ~~charging means~~ and said
image bearing member is substantially the same as ~~a~~ the contact width of said developer charger
~~charging means~~ and said image bearing member in ~~the~~ a direction substantially the same as the
longitudinal direction of said image bearing member, and

wherein the ~~a~~ width of movement of said second developer charger ~~charging means~~ is
substantially the same as the width of movement of said developer charger ~~charging means~~.

36. (Currently Amended) An image forming apparatus according to claim 18,
further comprising ~~provided with~~ a plurality of image forming stations each of which
~~having~~ has said image bearing member, said developing device, ~~means~~ and said developer
charger ~~charging means~~,

wherein developer images are transferred from ~~the~~ said image bearing members of ~~the~~
said respective image forming stations onto ~~said~~ the transfer ~~destination~~ member that moves
through ~~the~~ said image forming stations.

37. (Currently Amended) An image forming apparatus according to claim 36, wherein ~~said~~ the transfer ~~destination~~ member is an intermediate transferring member, and said developer images are transferred from said intermediate transferring member onto a transferring material.

38. (Currently Amended) An image forming apparatus according to claim 36, wherein ~~said~~ the transfer ~~destination~~ member is a transferring material, and a transferring material carrying member that carries the transferring material moves through said image forming stations.

39. (Currently Amended) An image forming apparatus according to claim 36, wherein said image forming stations form developer images of different colors on ~~said~~ the transfer ~~destination~~ member respectively.